

## Wireless and Wired Cable Modem Applications of Universal Frequency Translation Technology

### *Abstract*

Frequency translation and applications of same are described herein, including cable  
5 modem applications. Such applications include, but are not limited to, frequency down-  
conversion, frequency up-conversion, enhanced signal reception, unified down-conversion and  
filtering, and combinations and applications of same. Furthermore, QAM, QPSK, and other  
modulation techniques are also described.

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